PATENT COOPERATION TREATY



PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

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Applicant's or agent's file reference 03074PCT	FOR FURTHER A	CTION	See Form PCT/IPEA/416				
International application No.		ate (day/month/year)	Priority date (day/month/year)				
PCT/JP2003/015170		003 (27.11.2003)	29 November 2002 (29.11.2002)				
International Patent Classification (IPC) or national classification and IPC C12P 17/16, C07D 407/06, C12N 1/20, A61P 35/00, A61K 31/336 // (C12N 1/20, C12R1:465), (C12P17/16, C12R1:465), (C12P17/16, C12R1:645)							
Applicant MERCIAN CORPORATION							
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 							
2. This REPORT consists of a total of	sheets, including this cover sheet.						
3. This report is also accompanied by A							
a (sent to the applicant and	to the International Bi	ureau) a total of	sheets, as follows:				
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).							
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.							
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) 1 DISC readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).							
4. This report contains indications relati	ing to the following ite	ms:					
Box No. I Basis of the rep	oort						
Box No. II Priority							
Box No. III Non-establishm	ent of opinion with re	gard to novelty, inventi	ve step and industrial applicability				
Box No. IV Lack of unity o							
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
Box No. VI Certain documents cited							
Box No. VII Certain defects in the international application							
Box No. VIII Certain observations on the international application							
Date of submission of the demand		Date of completion of	this report				
24 March 2004 (24.03.2004)			pril 2004 (12.04.2004)				
Name and mailing address of the IPEA/JP		Authorized officer					
Facsimile No.		Telephone No.					

Translation

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2003/015170

Box No. I	Basis of the report					
F	to the language, this report is based on the international application in the language in which it was filed, unless					
This	report is based on translations from the original language into the following language, this language of a translation furnished for the purpose of:					
	international search (under Rules 12.3 and 23.1(b))					
	publication of the international application (under Rule 12.4)					
	international preliminary examination (under Rules 55.2 and/or 55.3)					
and are not	I to the elements of the international application, this report is based on (replacement sheets which have been the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed"					
	nternational application as originally filed/furnished					
	scription:					
pages	, as originally filed/furnished					
pages	received by this Authority on					
pages	received by this Authority on					
the cla	ims:					
pages	, as originally filed/furnished					
pages'	, as amended (together with any statement) under Article 1					
pages*	received by this Authority on					
pages*	received by this Authority on					
the dra	wings:					
pages						
pages*	, as originally filed/furnished received by this Authority on					
pages*	received by this Authority on					
a seque						
Z a sequi	ence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.					
The an	nendments have resulted in the cancellation of:					
t	he description, pages					
	ne claims, Nos.					
t	ne drawings, sheets/figs					
	De Seguence listing (gnee/6-)					
	ne sequence listing (specify):					
∟J ª	ny table(s) related to sequence listing (specify):					
(Rule 7						
₩	e description, pages					
	e claims, Nos.					
th	e drawings, sheets/figs					
⊥ th	e sequence listing (specify):					
an	y table(s) related to sequence listing (specify):					
f item 4 applie	s, some or all of those sheets may be marked "superseded."					
m PCT/IDEA/	409 (Box No. I) (January 2004)					



INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2003/015170

	1 C1/31 2003/0131/0
Supplemental Box Relating to Sequence Listing	
Continuation of Box No. 1, item 2:	
 With regard to any nucleotide and/or amino acid sequence disclosed in the international invention, this report was established on the basis that of: 	application and necessary to the claimed
1. With regard to any nucleotide and/or amino acid sequence disclosed in the international invention, this report was established on the basis that of: a. type of material a sequence listing table(s) related to the sequence listing b. format of material in written format in computer readable form c. time of filing/furnishing contained in the international application as filed filed together with the international application in computer readable form furnished subsequently to this Authority for the purpose of search and/or examinates and an amendment* on received by this Authority as an amendment* on In addition, in the case that more than one version or copy of a sequence listing and or furnished, the required statements that the information in the subsequent or addit application as filed or does not go beyond the application as filed, as appropriate, we hadditional comments:	mination d/or table(s) relating thereto has been filed
* If item 4 in Box No. I applies, the listing and /or table(s) related thereto, which form part "superseded".	t of the basis of the report, may be marked

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/JP 03/15170

YES

NO

1-7

V. 	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
1.	Statement						
	Novelty (N)	Claims	1-7	YES			
		Claims		NO			
	Inventive step (IS)	Claims	1-7	YES			
		Claims		NO			

2. Citations and explanations

Industrial applicability (IA)

Document 1: WO 02/060890 A1 (Mercian Corp., et al.), 08

August 2002

Document 2: JP 4-352783 A (Taisho Pharm. Co., Ltd.), 07

December 1992

Claims

Claims

The invention that is set forth in claims 1 to 7 involves an inventive step in relation to documents 1 and 2, above, which are cited in the international search report.

Documents 1 to 2 do not disclose a method for the production of the macrolide-based compound 11107D, which includes a step wherein the macrolide-based compound 11107B is incubated either in the presence of a strain of bacteria that belongs to the genus Mortierella or Streptomyces or to the family Micromonosporaceae, or in the presence of preparations that are obtained by cultivating the strains of bacteria in question. Furthermore, even a person skilled in the art could not easily have conceived of the feature in question in the light of the disclosures of documents 1 to 2.